

IN THE SPECIFICATION:

Please replace the paragraph beginning at page 4, line 16 with the following rewritten paragraph.

B2
Figure 1 shows the general structure of a ~~prior art~~ optical transmission system including regenerators in prior art, and partial transmission system including regenerators in the present invention.

Please replace the paragraph beginning at page 7, line 2 with the following rewritten paragraph.

B3
Figure 4 shows a second embodiment of a regenerator designed to regenerate a single channel. It essentially includes an inserter/extractor system 33 which is a standard component in the field of optical transmission systems and a regenerator unit 16 (REGEN). The inserter/extractor system 33 includes a first three-port optical circulator 34, a section 36 of optical line provided with an optical reflector 38, for example a Bragg filter, to reflect the channel λ_k , and a second optical circulator 40. These components are arranged, in a manner well known in the art, to extract the channel λ_k from the optical line and to direct it to the input of the regenerator unit 16 (REGEN) and to insert the regenerated channel λ_k received from the regenerator unit 16 (REGEN) into the optical line.

Please replace the paragraph beginning at page 8, line 17 with the following paragraph.

34
The supervisory means in the regenerator shown in figure 6 include: an optical reflector 52 for extracting and then inserting the supervisory channel λ_s , an optical coupler or demultiplexer 54 for separating the channels λ_k and λ_s extracted from the line by the circulator 34 and the reflectors 38, 52, an optical coupler or multiplexer 56 for remultiplexing the channels λ_k and λ_s after they have been processed, and a supervisory unit 58 for receiving information on the status of the regenerator 16 (REGEN) and on the status of the channel λ_k via an optical coupler 60 sampling a portion of the signal on the channel λ_k at the output of the regenerator 16 (REGEN), the supervisory unit 58 transmitting that information on the channel λ_s to the optical coupler or multiplexer 56.